United Nations Educational, Scientific and Cultural Organization
منظمة الأمم المتحدة للتربية والعلم والثقافة

Regional Bureau for Science in the Arab States
المكتب الإقليمي للعلوم في الدول العربية
Cairo-القاهرة

Mission Report

Joint Mission Report

Staff: Bisher Imam, Senior Programme specialist (FU/CAI) and Fatma Khattab, programme assistant (FU/CAI)
Trip #: 0029001375 (Imam)
Mission Date: 30 Sept – 5 October, 2017
Mission location: Arabian Gulf University Campus, Manama, Bahrain,
Mission Objective: Organize the Regional Expert Meeting on Groundwater Governance in the Arab Region.
Main activities:

Imam: organize the meeting and discussions, present and promote water governance and the groundwater governance global framework, and coordinate the working groups.
Khattab: Support the organization, note taking, coordinate with lunch vendor and other logistical supports.

Partners: UNESCO, FAORONE, and the Arabian Gulf University.

Purpose of the Mission:
Organize, in partnership with the regional office of the UN Food and Agricultural Organization (FAO) and with the Arabian Gulf University, the regional expert meeting on groundwater governance in the Arab region. The main objective of the expert meeting was to promote the UN global framework for groundwater governance to which UNESCO has made significant contributions.

Introduction
Subsequent to the 22nd session of the IHP intergovernmental Council (June, 2016), during which, the final outcome of the UN-GEF ***Groundwater Governance: A global framework,*** launched and in the framework of implementing "Promoting Groundwater Governance" within IHP-VIII (38 C/5), UCO initiated contacts with the Project office at FAO HQ in Rome and with FAO regional office for the near east and north Africa concerning the promotion of the framework in the Arab Region. UCO interest is based on the outcome of the technical diagnostic studies (organized by UCO) in the region in support of the formulation of the global framework and the significant contribution of UNESCO to the framework development.

As a result of the early discussions with FAO and experts at the Arabian Gulf University (leader of the diagnostic studies), UCO produced a concept note that was shared with potential partners. The workshop was finalized in close cooperation with colleagues at FAORONE and presented to the regional leadership of the two organizations. The main premise of the concept not was to hold a regional expert meeting to promote the framework and to identify a road map towards capacity building in the region necessary for national and regional implementation in accordance regional specificities. It was agree to hold the workshop on 2-4 May, 2017 on the Campus of AGU in Manama, Bahrain. it was also decided that the workshop should engage senior officials responsible for groundwater in both the Ministry of Water Resources and the Ministry of Agriculture in Arab countries. An organizing committee was formed from UCO, FARONE, and AGU.

Joint letters requesting nominations were sent in late February to the National Commissions of UNESCO in all countries within UCO mandate. The slow responses motivated the organizers to postpone the workshop until October 2-4 2017. UCO and FAORNE continue to accept nominations and UCO engaged in calling NATCOMs to ensure the maximum number of nominations.

Preparation for the workshop included the transmission of links to the documents of the global framework as well as a survey to use in formulating member states presentations during the workshop. Logistics were handled by all three organizations each within the agreed financial support framework.

Due to the sudden death of our cherished colleague and partner from FAO, FAO colleagues asked me to continue to lead the workshop and should it be necessary to represent FAO within the One-UN framework during the workshop.

The Expert Meeting

The regional expert meeting on groundwater governance in the Arab region was held on the campus of the Arabian Gulf University in Manama, Bahrain, 2-4, October 3017. The meeting was organized in partnership with the United Nations Food and Agriculture Organization Regional Office for the Near East, and the Arabian Gulf University. Forty (40) senior experts representing the ministry agriculture and ministry of water resources in 14 Arab Countries, namely (Bahrain, Egypt, Iraq, Jordan, Lebanon, Mauritania, Morocco, Oman, Palestine, Qatar, Sudan, Saudi Arabia, Tunisia, and Yemen) participated in the meeting. The participants also included experts representing partner organizations including the Arab Water Council (AWC), the secretariat of the Arab Ministerial Council on Water, the regional office of the International Water Management Institute (IWMI), International Center for Agricultural Research in the Dry Areas (ICARDA), the Arab Center for the Studies of Arid zones and Dry lands (ACSAD), and the Center for Environment and Development for the Arab Region and Europe (CEDARE). Deans, Department heads, and faculty members from various schools at AGU also participated in the expert meeting. A full list of Participants is available in Annex 1.

The meeting was inaugurated by H.E. Professor Khalid Abdul Rahman Al-Ohaly, President of AGU. Professor Al-Ohaly welcomed the participants and highlighted grand water security challenges facing the Arab region. He also highlighted AGU's pioneering role in the GCC as well as the wider region on issues of defining and promoting a strategic approach to water scarcity and climate change issues. Emphasizing the role of outreach and water education, Professor Al-Ohaly invited the expert meeting to recall that the Family is the key unit of society and it is at that unit that water conservation culture can be effectively fostered and promoted. As the senior UN officer present, I welcomed the President and thanked him for his patronage of the meeting. I highlighted the long-standing partnership of both UCO and FAORNE and AGU on water related issues recognizing the leading role AGU played in providing feedback to the global framework through the coordination of the diagnostic studies and the preparation of the synthesis report.

A one minute of silence was dedicated to the memory of Dr. Fawai Karaje (FAO) who was instrumental in the organizing of the meeting.

On the first day of the meeting, I gave a long orientation presentation focusing on the key elements of the global framework report. My presentation was followed with a presentation by Dr. Waleed K. Zubari, who outlined the main results of the diagnostic study report. Subsequently, Member states gave presentations on the status of groundwater governance in their countries throughout the remainder of the first day and the morning of the second day.

It was evident from the presentations given by government experts that many Arab countries have already began the development of one or more of the critical elements necessary for establishing groundwater governance frameworks. For example, Palestine and Iraq are already in advanced stages of implementing a fully transparent and publicly accessible sophisticated information systems providing both historical and real-time well-log information. In both cases, the two countries are also in the process of enhancing their monitoring network. In Egypt, the process of integrating the many executive guidance articles into a unified national water law that will include 14 dedicated article on groundwater. Jordan has adopted IWRM approaches and integrated IWRM into the National Water Strategy with key sectors being engaged through various platforms. The government of Jordan has also adopted a progressive community outreach and awareness raising campaigns for conservation of the country's scarce resources. Morocco has already established a new governance mechanisms (aquifer contracts) and already has in place a multi-agency high commission on water. Morocco is also undertaking critical institutional and legal reforms aiming to protect groundwater resources and to place it in the public custody. Mauritania is in the early stage of preparing aquifer studies and groundwater management strategies. Oman has already established laws and regulations focusing on the protection of groundwater resources, albeit much of these resources can be classified as brackish water. On the other hand, Oman also has a great interest in protecting and appropriately maintaining the historic "Aflaj" system. Likewise, the majority of groundwater resources in Qatar are brackish water. However, the country needs to embark on major rationalizing strategy as per/capita water consumption in the country continues to increase beyond sustainable limits. In Sudan, water harvesting is being regulated now with the objective of reducing reliance on groundwater resources. Sudan is undergoing efforts to also define water quality standards allowing for water-reuse and for utilization of water harvesting in managed aquifer recharge. Yemen and Lebanon present some challenges concerning groundwater governance, primarily institutional capacity. Presentation by representatives of the key partner agencies followed the member states' presentations.

Overall the discussion of individual presentations highlighted key issues including

1- Need to distinguish governance from management
2- Good governance requires also the capacity of stakeholders and the public to understand technical terms and the capacity of technical experts to present these terms appropriately to all levels.
3- There are critical challenges concerning the enforcement of water laws. Equity remains a major challenge
4- Overall, all countries face a growing water challenge. Meeting the increasing per/capita demand as well as the growing population is placing great strain on groundwater resources.

5- With agriculture being the main user of groundwater, the role of agriculture extension agents in supporting appropriate and rational utilization of groundwater resources is critical. Governments need to empower these agents and provide them with continuous capacity upgrading platforms.
6- Climate change is a major threat, it needs to be integrated into the governance dimension.

Working Groups:
Three working groups were established during the meeting as following:
1- Knowledge and technical capacity needs
2- Institutional Capacity needs
3- Legal and Policy capacity needs

While the deliberation of each group provided different needs, a common theme emerged concerning the need to support capacities at all levels concerning methods and approaches of engaging relevant stakeholders and the communities.

The meeting was concluded on the third day by an open discussion session and by a session to formulate recommendations. The recommendation are available in Annex III.

Key Outcome:

1- High level experts in the Arab region shared experiences on various approaches to groundwater management.
2- Importance of establishing groundwater governance frameworks was highlighted and awareness raised
3- Available guidelines and tools were discussed and debated. A regional approach is both possible and needed.
4- Examples of regional cooperation were highlighted and best practice case studies discussed.
5- A regional network of senior groundwater officials in the Ministries of water and agriculture has been established

Following the conclusion of the meeting, Ms. Fatma Khattab took initiative to
1- Establish a google document archive of all presentations and meeting documents
2- Establish a WhatsApp group (as agreed to by participants)

Immediate Follow up:
1- Follow up on the recommendation of the meeting including as a first step discussion with HQ and other agencies the need to translate the guidelines into Arabic, with appropriate funding, UCO is primed to do the translation. It is recommended to communicated with the Delegation of KSA, which is interested in supporting Arabic Language translation of key technical documents.
2- Finalize the technical report of the meeting.
3- Engage the newly established network through modern social media
4- Develop a report on the meeting and its outcome and recommendation to the next Arab Ministerial Council on Water.

Annex 1
List of Participants

Mission Report

Expert Meeting on Capacity Building on Groundwater Governance in the Arab Region
2-4 October, 2017
Arabian Gulf University, Manama, Bahrain
.
List of Participants

MEMBER COUNTRIES

EGYPT

Osama El-Zaher
General Director
Minister's Technical Office for Mega Project,
Ministry of Water Resources and Irrigation
Cairo
Tel: +2 02 35449473
Mobile: +02 0109 609 9966
E-mail: o_zhaher@hotmail.com

IRAQ

Ahmed Nadhim Kwair
Geologist, General Commission of Groundwater
Ministry of Water Resources
Baghdad
Mobile:+964 770 297 2374
E-mail: ank_1976@yahoo.com

JORDAN

Emad Al-Qudah
Head of Irrigation Division
Ministry of Agriculture
Amman
Mobile: +962 799041696
E-mail: alqudahemad@gmail.com

LEBANON

Radwan Atwe
Chief, Groundwater Directorate
Ministry of Water
Beirut
Mobile: **+** 961 3 972110
E-mail: dr_ridwanatwi@hotmail.com

OMAN

Isehaq Omer Al Jabri
Assistant Director of Irrigation and Agricultural Land Department
Ministry of Agriculture and Fisheries Wealth
Muscat
Mobile: +968 9923 1766
Fax: +968 2469 284
E-mail: Ishaq534@gmail.com

Said Al-Habsi
Director-General of Water Resources Assessment
Ministry of Regional Municipalities and Water Resources
PO Box 461 P.C. 112 Ruwi, Muscat
Tel: +968 2469 8334
Fax: +968 2469 8623
Mobile: +968 9266 0219
E-mail: ddgwrw@mrmwr.gov.om
Alhabsisaid31@gmail.com

MAURITANIA

Saadou Ebih Monane
Ingenieur Hydrogeologue Principal
Ministry of Water and Sanitarily
Nouakchott
Tel: +222 49 49 1113
Mobile: +222 26 307017
E-mail: saadouebih@yahoo.fr

Allal Lile Sheikhna
Deputy Director
Agriculture Department
Ministry of Agriculture
Nouakchott

Mobile: +222 41 230565 / 22351107
E-mail: oca.lile789@gmail.com

MOROCCO

Rachid Essafi
Head of Hydrology Service
Department of Water
Rabat
Mobile: +212 666 01 9726
E-mail: essafi.rachid@gmail.com

Ehssan ElMeknassi Youssoufi (Ms)
Head of Service
Ministry of Agriculture
Rabat
Tel: +212 537 30 1026
Mobile: +212 667 32 44 31
Fax: +212 537 29 44 57
E-mail: ehssan.elmeknassi@gmail.com

PALESTINE

Farah Sawafta
Hydraulics and Environmental Engineering.
Director of Water Department.
Ministry of Agriculture
P.O. Box (197), Ramallah
Tel: + 9722 2403304/6/7.
Mobile: + 972598928147.
Fax: +9722 2403312.
E-mail: sawaftaf@yahoo.com

Ayman Shawahna
Director-General
Environment Quality Authority
Ramallah
Tel: +970 2240 3495
Mobile: +970 599 255 486 / 568 881871
Fax: +970 2240 3494
E-mail: aymanth@hotmail.com

QATAR

Mohamed Khalifa AlKuwari
Lecturer
Department of Humanities
College of Arts and Sciences
Qatar University
Doha
Mobile: +974 555 35244
E-mail: mkalkuwari@qu.edu.qa

Sayed Mahmoud Morsi Said
Professor
Qatar University
PO Box 2713, Doha
Mobile: +973 304 53752
E-mail: ssaid@qu.edu.qa

SAUDI ARABIA

Ibrahim Abdul Rahman Al Shabib
General Director
General Directorate for Water Resources
Ministry of /Environment, Water & Agriculture
Riyadh
Tel: +966 1203 8888
Mobile: +966 50345 6674
E-mail: ishebebi@mowe.gov.sa

Saad Mohamed Al Shahrani
General Director
General Directorate of Water Regulation Assistant
Ministry of Environment, Water & Agriculture
Riyadh
Mobile: +966 50 4498 320
E-mail: salshahrani@mowe.gov.sa

SUDAN

Salah M. Mahgoob Mohamed
General Director
Groundwater & Surface Water Directorate
Ministry of Water Resources
Khartoum
Mobile: +249 126 37275
E-mail: salah-wtr@yahoo.com

Mohamed Ali Ahmed El Toum

General Director of Study & GIS
Ministry of Water Resources, Irrigation and Electricity
Khartoum
Tel: +249 912 356541
Mobile: +249 1234 94489
E-mail: mohamedeltoum68@gmail.com

TUNISIA

Ridha ElGhoudi
Head of Water Ressources
Ministry of Water Resources
Tunis
Mobile: +216 97 416 567
Fax: +216 75290 668
E-mail: r.ghoudi@gmail.com

YEMEN

Khaled Mohsen M. Baleid
Chairman
National Water Resources Authority
Ministry of Water
Aden
Mobile: +967 777 279159
E-mail: khaleedy@gmail.com

Ahmed Mohammed Nasser Hasan
Deputy Minister of Agriculture and Irrigation
Ministry of Agriculture
Aden
Tel: +967 2 359130
Mobile: +967 774555090
E-mail: zamki1873@yahoo.com

ORGANIZATIONS

ACSAD

Mohamed Bargaoui
Surface Water Expert
Arab Centre for the Studies of Arid Zones and Dry Lands (ACSAD)
League of Arab States
Cairo, Egypt
Mobile: +2 0100 96 42064
E-mail: bargaoui.med219@gmail.com

ARAB WATER COUNCIL

H.E. Mahmoud Abu-Zeid
President
Arab Water Council (AWC)
9 El-Mokhayam Al-Da'em St.,
Al-Hay Al-Sades, Nasr City, 11471, Cairo, Egypt
Tel: +2 02 22743834
Mobile: +2 0100 6766 600
Fax: +2 02 22600683
E-mail: president@arabwatercouncil.org

H.E. Hussein El-Atfy
Secretary General
Arab Water Council (AWC)
9 El-Mokhayam Al-Da'em St.,
Al-Hay Al-Sades, Nasr City, 11471, Cairo, Egypt
Tel: +2 02 22600312
+2 02 24023276/53 ex.101
Fax: +2 02 22600683
Mobile: +2 02 01006856855
E-mail: hielatfy@arabwatercouncil.org

CEDARE

Khaled AbuZeid
Senior Regionl Water Resources Program Manager
Centre for Environment & Development for the Arab Region & Europe (CEDARE)
2 ElHegaz Street, Heliopolis,
Cairo, EgyptTel:+2 02 2451-3921 / 2 / 3 / 4 Extension: 665
Fax:+2 02 2451-3918
Mobile: +2 0100 155 1275
E-mail: kabuzeid@cedare.int

Mission Report

ESCWA

Ziad Khayat

First Economic Affairs Officer
Water Resources Section
Sustainable Development Policies Division (SDPD)
United Nations Economic and Social Commission for Western Asia
UN House P.O. Box: 11-8575
Riad El Solh 1107-2812,
Beirut, Lebanon
Tel. +961 1 978 517
Fax: +961 1 981 510
Mobile: +961 3 387771
E-mail: khayat@un.org

ICARDA

Usman Khalid Awan
International Center for Agricultural Research in the Dry Areas (ICARDA)
15 G Radwan lbn El-Tabib st. Giza,
P.O. Box 2416, Cairo, Egypt
Tel Office: (+202) 35724358, Ext. 123
Mobile: +2 0102 327 8855
E-mail: U.k.Awan@cgiar.org

IWMI

Alvar Closas
Resercher – Acting Office Head
International Water Management Institute (IWMI)
156 Radwan IBN Al Tabib
Cairo, Egypt
Mobile: +2 0106 889 6237
E-mail: a.closas@cgiar.org

LEAGUE OF ARAB STATES

Inas Ahmed (Ms)
Economic Sector
Environment, Housing & Water Resources Dept.
League of Arab States
1 Tahrir Square
Cairo, Egypt
Tel: +2 02 25753078
Fax: +2 02 25743023
Mobile: +2 01067679717
E-mail: inas-mostafa@hotmail.com

WORLD METEOROLOGICAL ORGANIZATION (WMO)

Hesham Abdelghany Moussa
Representative of WMO
Manama, Bahrain
Mobile: +973 3395 2312
Fax: +973 17311 607
E-mail: habdelghany@wmo.int

ARABIAN GULF UNIVERSITY

Alaa ElSadek
Professor
Arabian Gulf University
PO Box 26671
Manama, Bahrain
Tel: +973 1723 9744
Mobile: +973 366 86 906
Fax: +973 17239 552
E-mail: alaasa@agu.edu.bh

Asma Ali Abohussain (Ms)
Vice Dean
College of Graduate Studies
Arabian Gulf University
PO Box 26671
Manama, Bahrain
Tel: +973 17239 840
Mobile: +973 396 92291
Fax: +973 17239 552

Mission Report

E-mail: dr.asma.abahussain@gmail.com
asma@agu.edu.bh

Mohammad Sulaiman Abido
Professor of Ecology and Biodiversity
Environmental Sciences and Natural Resources Program
Arabian Gulf University
PO Box 26671
Manama, Bahrain
Tel: +973 17239 604
Mobile: +973 399 23746
Fax: +973 17239 552
E-mail: mohammedsaa@agu.edu.bh

Ahmed O. El Kholei
Professor of Urban Planning
Arabian Gulf University
PO Box 26671
Manama, Bahrain
Tel: +973 17239639
Mobile: +973 3350 8294
Fax: +973 17239 552
E-mail: aelkholei@agu.edu.bh

Abdel Hadi Abdel Wahab Mohamed
Associate Professor
Arabian Gulf University
PO Box 26671
Manama, Bahrain
Tel: 973 172 39 437
Mobile: +973 336 999 82
Fax: +973 17239 552
E-mail: abdelhadiama@agu.edu.bh

Dawood Sulaiman Al-Qasmi
Hydrogologist / Master Student in AGU
Arabian Gulf University
PO Box 26671
Manama, Bahrain
E-mail: Dawood.qasmi@gmail.com

ORGANIZERS

ARABIAN GULF UNIVERSITY

Waleed Khalil Zubari
Professor - Water Resources Management Program
Arabian Gulf University
P.O Box 26671
Kingdom of Bahrain

Tel: +973 17 239 880 / +973 3943 3811
Fax: +973 17 239 554
E-mail: waleed@agu.edu.bh

Fadia Mohammed (Ms)
Lab Technician
Desert & Arid Zone Programme
Arabian Gulf University
P.O Box 26671
Kingdom of Bahrain
Tel: +973 17 239 519
Fax: +973 17 239 552
E-mail: fadiamat@agu.edu.bh

FAO

Heba Fahmy (Ms)
Technical Programme Assistant, RNE
FAO Regional Office for the Near East and North Africa
Food and Agriculture Organization of the United Nations
11, Al Eslah El Zerai St.
Dokki-Cairo, Egypt
Tel.: +202 – 333 16000 (Ext. 2802)
E-mail: hebatallah.fahmy@fao.org

UNESCO

Bisher Imam
Senior Programme Specialist (Water Science)
UNESCO Regional Bureau for Science in the Arab States

Mission Report

Cairo, Egypt
Tel.: +20 2 38268912; (Extension 7025)
Mobile: +20 102 1586548
E-mail: b.imam@unesco.org

Fatma Eldesouky (Ms)
Assistant
UNESCO Regional Bureau for Science in the Arab States
Cairo, Egypt
Tel.: +20 2 38268912
E-mail: f.eldesouky@unesco.org

Annex 2
Meeting Agenda

Expert Meeting on Capacity Building on Groundwater Governance in the Arab Region
2-4 October, 2017
Arabian Gulf University, Manama, Bahrain
Agenda

Day 1: The global Framework and Status of Groundwater Governance In the Arab Region		
08:00	**08:30**	**Transfer from Hotel to Arabian Gulf University Campus**
08:30	09:00	Registration
09:00	**10:00**	**Opening Session**
		Opening Statements UN Resident Coordinator, Bahrain UNESCO & FAO Arabian Gulf University
		Introduction to Participants, Meeting Agenda, Charge and Logistics
10:00	**11:30**	**Session 1: The Groundwater Governance: Global Framework for Country Action**
10:00 11:00	11:00 11:30	Overview of the Global Framework UNESCO & FAO General Discussion
11:30	**13:00**	***Coffee and Noon Prayer Break***
13:00	**14:10**	**Session 2: Arab Region Diagnostic Report**
13:00 13:30	13:30 14:10	Overview of the Arab Region Diagnostic Report Waleed Zubari, AGU General Discussion
14:10	**15:30**	**Session 3: Status of Groundwater Governance and Capacity Needs in the Arab Region--Country Presentations[1]**
14:10 14:30 14:50 15:10	14:30 14:50 15:10 15:30	Egypt Iraq Jordan Lebanon
15:30	**16:00**	***Coffee Break***
16:00	**17:00**	**Session 4- Status of Groundwater Governance and Capacity Needs in the Arab Region--Country Presentations- Cont.**
16:00 16:20	16:20 16:40	Mauritania Morocco
16:40	**17:30**	***General Discussion and adjourn***

[1] Country presentation will be based on the templates provided by the organizers while considering outlines of the Global Framework for Action and highlighting capacity needs in supporting groundwater governance

Day 2: Status of Groundwater Governance In the Arab Region		
08:30	**09:00**	**Transfer from Hotel to Arabian Gulf University Campus**
9:00	**11:40**	**Session 5: Status of Groundwater Governance and Capacity Needs in the Arab Region--Country Presentations Continued**
09:00	09:20	Oman
09:20	09:40	Palestine
09:40	10:00	Qatar
10:00	10:20	Saudi Arabia
10:20	10:40	Sudan
10:40	11:00	Tunisia
11:00	11:20	Yemen
11:20	11:40	Bahrain
11:40	**13:00**	***Coffee and Noon Prayer Break***
13:00	**15:30**	**Session 6: Role of regional and international organizations in implementing the ground water governance framework in the Arab region**
13:00	13:20	LAS
13:20	13:40	ACSAD
13:40	14:00	AWC
14:00	14:20	CEDARE
14:20	14:40	ESCWA
14:40	15:00	ICARDA
15:00	15:20	IWMI
15:20	**15:50**	***Coffee Break***
15:50	**17:30**	**Session 7: Plenary Discussion and refining capacity need priorities and setting stage for working groups and Wrap up**
17:30		***Adjourn and transfer back to hotel***

Day 3: Towards Regionally Coordinated Knowledge Building, Exchange, and Capacity Development in the Arab region		
08:30	**09:00**	**Transfer from Hotel to Arabian Gulf University Campus**
09:00	**11:40**	**Session 8: Working group Sessions (Parallel Sessions)**
09:00	09:10	Working Groups Charge
09:10	11:00	Working Groups General Discussion—Setting requirements • *Theme 1- Establishment of an adequate basis for groundwater governance (to include information sharing, data, monitoring, modeling, and assessment)* • *Theme 2- Strengthening institutions and Creating linkages with other sectors* • *Theme 3 - Groundwater planning and management*
11:00	11:30	Plenary Session Working group reports
11:30	**13:00**	***Coffee and Noon Prayer Break***
13:00	**15:00**	**Session 9: Working Groups- Outline of Roadmaps towards strengthening capacities for groundwater governance in the Arab Region**
13:00	14:30	Working Groups General Discussion—Setting requirements • *Theme 1- Establishment of an adequate basis for groundwater governance (to include information sharing, data, monitoring, modeling, and assessment)* • *Theme 2- Strengthening institutions and Creating linkages with other sectors* • *Theme 3 - Groundwater planning and management*
14:30	15:00	Plenary Session, working groups reports
15:00	**15:30**	***Coffee Break***
15:30	**17:00**	**Session 10: The Way Forward**
15:30	16:30	Plenary discussion: Roadmap, implementation mechanisms
16:30	17:00	Plenary discussion: Roadmap, role of countries, agencies, and potential donors
17:00	17:30	Closing remarks
17:30		***Adjourn and transfer back to hotel/Airport***

Annex 2
General Recommendations of the Meeting (Arabic)

التوصيات النهائية

1- إدراج موضوع حوكمة المياه الجوفية في المنطقة العربية ومخرجات اجتماع الخبراء بالبحرين ضمن أنشطة الخطة التنفيذية لاستراتيجية الأمن المائي العربي.

2- وضع آليات عمل لتنفيذ مخرجات اجتماع الخبراء حول حوكمة المياه الجوفية (المنامة 2-4 أكتوبر/تشرين الأول 2017) والتواصل مع مختلف الهيئات والشبكات المعنية ذات الصلة لإشراكها في هذا البرنامج، ضمن الأولويات التالية:

- إعداد دليل استرشادي حول السياسات والتشريعات والخطط في مجال حوكمة المياه الجوفية.
- تنظيم دورات تدريبية حول أولويات ومبادئ ومفاهيم حوكمة المياه الجوفية لجميع المعنيين من متخصصيين وقانونيين وبرلمانيين ومنتفعين.
- إدراج مفاهيم حوكمة المياه بما في ذلك المياه الجوفية والسياسات والتشريعات المطلوبة في المناهج التعليمية في الجامعات والمدارس العربية.
- مراجعة واعتماد مؤشرات حوكمة المياه الجوفية في المنطقة العربية استرشادا بمؤشرات الإطار الدولي

3- مخاطبة الدول العربية لتقديم التجارب الناجحة في حوكمة المياه الجوفية بكافة المحافل الإقليمية والدولية المعنية.